

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 08055592
 PUBLICATION DATE : 27-02-96

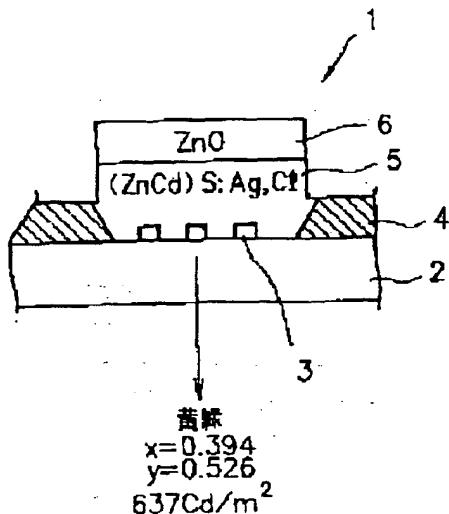
APPLICATION DATE : 12-08-94
 APPLICATION NUMBER : 06190590

APPLICANT : FUTABA CORP;

INVENTOR : SHIMIZU NORIO;

INT.CL. : H01J 31/15 H01J 29/20 H01J 31/12

TITLE : ANODE BASE



ABSTRACT : PURPOSE: To provide an anode base having a two-layered phosphor layer with high red emission efficiency from which no sulfide gas spreads.

CONSTITUTION: An anode conductor 3 is formed in a translucent pattern on the inner surface of a glass base 2. The inner surface of the base other than the anode conductor 3 is covered with a black insulating film 4. $(Zn_xCd_{1-x})S:Ag,Cl$ ($x = 0.1$ to 0.5), which is a sulfide phosphor 5, exists on the anode base 3. $ZnO:Zn$ which is a non-sulfide phosphor 6 exists on the phosphor 5. The anode base constitutes the envelope of a fluorescent display tube, and a lighting experiment is conducted. A beam of a wavelength as short as 550nm or less is emitted from the non-sulfide phosphor 6 by the bombardment of a low-speed electron beam. The short-wavelength beam is absorbed by the sulfide phosphor 5 and its emissive intensity decreases. The short-wavelength beam radiably excites the sulfide phosphor 5 to cause the phosphor 5 to emit red light with a peak near 650nm. Red components increase as a whole, and yellow-green emission can be obtained.

COPYRIGHT: (C)1996,JPO